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ADHESIVES CONTAINING MIRALON® PULP: UNIQUE ROUTE TOWARDS CONDUCTIVE STRUCTURAL ADHESIVES

ABSTRACT

Increasing electrification of the industrial world requires part designers to pay attention to electrical constraints. Examples of such constraints are the incorporation of mechanisms for avoiding electrostatic discharge or for providing electromagnetic shielding.

A common way to provide that functionality is to use electrically conductive adhesives during the assembly of parts. The mechanical loads on such assemblies are getting more and more demanding, requiring structural adhesives. The use of high amounts of conductive fillers in thermoset materials is compromising thermomechanical properties which limits the range of applications.

MIRALON® pulp is a new class of advanced carbon based performance materials. It is demonstrating high electrical performance and maintaining the thermomechanical properties of the base matrix. In this presentation, we present the first results of such an adhesive.

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